

Manchester Urban Ponds Restoration Program
Average Water Quality Measurements Tables 2000 – 2006

Average Epilimnion (*Top Layer of Water*) Total Phosphorus Measurements (mg/l)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	0.011	0.012	0.013	0.010	0.010	0.014	0.017
Dorrs Pond	0.045	0.024	0.023	0.024	0.030	0.026	0.030
Maxwell Pond	0.014	0.018	0.014	0.018	0.020	0.020	0.018
Nutts Pond	0.017	0.023	0.024	0.030	0.020	0.028	0.024
Pine Island Pond	0.024	0.016	0.026	0.029	0.020	0.020	0.026
Stevens Pond	0.019	0.025	0.018	0.017	0.020	0.017	0.031

Average Hypolimnion (*Bottom Layer of Water*) Total Phosphorus Measurements (mg/l)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	0.025	0.017	0.014	0.018	0.018	0.013	0.017
Dorrs Pond	0.088	0.029	0.127	0.022	0.030	0.027	0.029
Nutts Pond	0.089	0.097	0.179	0.109	0.080	0.064	0.088
Pine Island Pond	0.028	0.030	0.030	0.031	0.040	0.032	0.032
Stevens Pond	0.042	0.023	0.035	0.027	0.080	0.027	0.034

Average Epilimnion (*Top Layer of Water*) Conductivity Measurements (uMhos/cm)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	418	439	442	473	459	511	383
Dorrs Pond	408	831	866	759	644	842	455
Maxwell Pond	122	155	159	180	151	148	101
Nutts Pond	582	714	588	786	599	877	469
Pine Island Pond	287	383	316	339	256	324	235
Stevens Pond	769	1149	1172	1258	860	1099	578

Average Hypolimnion (*Bottom Layer of Water*) Conductivity Measurements (uMhos/cm)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	417	481	433	526	454	525	385
Dorrs Pond	432	825	904	782	653	625	520
Nutts Pond	1769	1960	1798	2018	2193	2615	2160
Pine Island Pond	305	350	318	306	268	320	237
Stevens Pond	792	1634	1126	1606	1041	1742	593

Average Chlorophyll-a Measurements (mg/m³)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	3.39	4.75	2.66	3.14	4.62	1.79	5.95
Dorrs Pond	30.84	14.75	9.86	18.03	15.09	8.34	12.13
Maxwell Pond	1.55	3.17	1.68	1.65	2.30	2.33	1.89
Nutts Pond	24.84	14.01	14.34	17.13	19.31	13.49	19.53
Pine Island Pond	8.04	13.20	8.23	2.21	8.97	8.46	11.04
Stevens Pond	8.66	6.26	13.88	4.28	9.44	3.04	63.57

Average Turbidity Measurements (NTU)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	0.49	0.89	3.22	0.79	1.64	0.82	1.41
Dorrs Pond	3.76	3.70	1.86	3.42	4.61	2.45	3.13
Maxwell Pond	2.03	3.40	1.10	2.57	2.12	1.69	1.63
Nutts Pond	0.93	1.80	3.78	2.80	5.32	2.64	1.71
Pine Island Pond	1.34	1.70	3.19	3.54	3.01	2.12	2.65
Stevens Pond	2.36	2.20	2.38	2.63	2.30	1.64	2.98

Average Secchi Disk Transparency Measurements (m)

	2000	2001	2002	2003	2004	2005	2006
Crystal Lake	4.3	3.6	3.2	5.0	3.9	5.4	4.17
Dorrs Pond	1.1	1.3	1.9	1.7	1.7	2.0	1.98
Maxwell Pond	1.1	1.1	1.1	1.1	1.1	1.1	1.53
Nutts Pond	3.1	2.4	2.3	2.3	1.8	2.5	2.48
Pine Island Pond	1.9	1.9	1.9	1.9	1.8	1.9	1.80
Stevens Pond	2.6	2.5	2.9	2.9	2.6	3.2	2.34